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COMNAVSURFLANTINST 9093.1J/
COMNAVSURFPACINST 9093.1C
CNSP CODE N64/CNSL CODE N60
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COMNAVSURFPAC INSTRUCTION 9093.1C/COMNAVSURFLANT INSTRUCTION 9093.1J

Subj: COMBAT SYSTEMS, COMMAND, CONTROL, COMMUNICATIONS AND COMPUTER READINESS ASSESSMENT (C5RA)

Ref: (a) FTSC C5RA Guidebook
(b) C5RA Test Package
(c) NWP 10-1-10

1. **Purpose**. To provide background and guidance for conduct of a C5RA.

2. **Cancellation**. COMNAVSURFPACINST 9093.1B/COMNAVSURFLANT 9093.1H

3. **Revision**. Extensive changes prevent marking individual additions, deletions, and revisions by paragraph, thus requiring complete review. Forward recommended changes and additions to COMNAVSURFPAC (Code N64) or COMNAVSURFLANT (Code N60).

4. **Scope**.

a. The C5RA applies to all ships within the Naval Surface Forces, U.S. Atlantic and Pacific Fleets and provides a comprehensive assessment of the ship's combat systems, C4I, support equipment, and logistics condition.

b. Specific applicability:

(1) All deployers, ships planned to be out of homeport for greater than three months, will complete C5RA prior to Pre-Overseas Movement (POM).

(2) Non-deploying ships will complete C5RA at no more than a three year interval.

5. **Objectives**

a. The primary objective of the C5RA is to improve the pre-deployment readiness and self-sufficiency of ships within the Naval Surface Forces, U.S. Atlantic and Pacific Fleets.

b. The secondary objectives of C5RA are:

(1) Conduct in-depth, over-the-shoulder, on board maintenance training for ship's force, focusing on assessment, troubleshooting, and corrective maintenance skills necessary for self-sufficiency in maintaining an optimal state of C5I readiness throughout deployment.

(2) Assess material condition, operability, and logistic support of the C5I system using PMS.

(3) Assist and train ship's force in correcting equipment, technical documentation, and logistics support deficiencies to ensure ship's C5I systems are in their highest state of readiness before deployment.

(4) Document equipment or system deficiencies for input into the Current Ship's Maintenance Project (CSMP) to support development of an intermediate/depot availability work package, and for input into the C5 Systems' Troubled Systems Process (TSP) for identification of Fleet equipment/system maintenance problem areas.

6. **Discussion**

a. The C5RA exists solely to improve readiness of the ship and crew training.

b. C5RA is a technical material assessment useful in identifying and correcting material and personnel maintenance training shortfalls.

c. The FTSC C5RA Guidebook, reference (a), provides standardized guidance for conducting the C5RA. Reference (b), the C5RA Test Package consists of the Ship's Test Package (Brown Book) and the Configuration Report (Green Book) and will be provided to the ship during the C5RA Pre-brief.

d. C5RA is conducted on the following major functional areas:

(1) C4I - Command, Control, Communications, Computers and Intelligence Systems

(2) Detection - Search Radar and Sonar

(3) EMC - Electromagnetic Compatibility

(4) Engagement - Guns, Launchers, and associated Fire Control Systems

(5) PALS - Precision Aircraft Landing Systems

(6) Support - Combat System support equipment (including electronics cooling, HP/LP/Dry Air and 400 Hz power systems)

(7) Logistics Support - COSAL/Supply and Electronics/Ordinance Publications

(8) Navigation Equipment

(9) Electronic Warfare Systems

(10) IFF/TACAN

(11) Air Conditioning

(12) Ordnance Safety

e. The following events are considered part of the C5RA process and should be conducted as prerequisites to the C5RA, if the schedule necessitates they may be conducted with the C5RA:

(1) Fleet Test Equipment Allowance Program (FTEAP-PAC)/Test Equipment Calibration Readiness Assessment (TECRA-PAC) – within 60 days prior to C5RA.

(2) Fleet Calibration Activity Audit (for those commands with FCA capability) – within 30 days prior to C5RA.

f. C5RA will include the following certifications and reviews:

(1) 2M Certification/Module Test and Repair (MTR) Inventory

(2) EMI Topside Visual Certification

(3) Small Arms Readiness (Upon Request)

(4) Conventional Ordnance Safety Review

(5) Magazine Sprinkler System (LANT - by request only)

g. C5RA will be scheduled by the ISIC and TYCOM at the Quarterly Employment Scheduling Conference using the following guidelines:

(1) C5RA shall be completed 90 to 140 days before deployment.

(2) No conflicting evolutions (i.e. holiday leave periods, POM, SPA, IMAV, SHIPALT/ORDALT/FC installations, training/drills, assist visits or any other evolution that will have a detrimental impact) shall be scheduled without prior TYCOM approval.

(3) Sufficient time shall be scheduled for C5RA to support two distinct phases: finding discrepancies, and correcting discrepancies. For most platforms, this period is two calendar weeks. The entire C5RA may be scheduled as a single continuous period, or may be split into separate visits if needed to support the ship’s schedule, or provide better support for discrepancy correction. No underway period will be scheduled. Longer C5RAs may be scheduled if necessary to support unusually complex C5RAs. Shorter C5RAs (e.g. less than five work days) will not be scheduled without prior TYCOM approval (CNSP N64/CNSL N6).

(4) Ships assigned to contingency operations greater than 30 days and less than three months, such as counter-drug ops, may be scheduled for a LIMITED C5RA, when requested by the SHIP/ISIC and approved by the TYCOM. The LIMITED C5RA will be

scheduled for not less than five working days. The review will concentrate on selected C4I, navigation, and search radar equipment, useful in surveillance and interdiction. The ship shall ensure the TYCOM, ISIC and FTSC are info addressees on all correspondence pertaining to any requests for a LIMITED C5RA. LIMITED C5RA equipment and systems reviewed and tested will be prioritized, according to agreements reached by FTSC, ISIC and the ship and approved by the respective TYCOM.

7. **Responsibilities**

a. TYCOM

(1) Provide general C5RA administration, coordination, policy, and guidance for the C5RA program.

(2) Approve all C5RA schedules.

(3) Approve changes to FTSC Technical Director Guidebook, reference (a), to provide detailed guidance for conducting C5RAs.

(4) Provide guidance for conducting C5RA Pre-Brief, visit execution, SESEF Range Data, notional C5RA schedule of events and a definition of a "LIMITED C5RA."

b. ISIC

(1) Schedule C5RA in coordination with TYCOM and FTSC.

(2) Ensure no conflicting evolutions are scheduled during C5RA.

(3) Assist ship in arrangement of support services as specified in C5RA Information Package.

(4) Participate in all phases of C5RA.

(5) Ensure all major discrepancies are corrected prior to deployment.

c. Fleet Technical Support Center (FTSC)

(1) Provide coordination, conduct, reporting, and necessary follow-on technical assistance required for completion of C5RA.

(2) Assign a C5RA Test Director (TD).

(3) Assign qualified C5RA Technical Evaluators (Team Members).

(4) Generate a prerequisite, test criteria and tasking message for TYCOM release five weeks prior to C5RA.

(5) Generate and send clearance message for all team members one week prior to the C5RA.

(6) Manage and conduct C5RA.

(7) Maintain C5RA Guidebook, Technical Evaluators Guidebook and the C5RA Test Package.

d. Ship's Force

(1) Designate the Electronics Material Officer (EMO), Electronics Repair Officer (ERO), or the Combat Systems Officer (CSO) as the ship's C5RA Coordinator.

(2) Prior to C5RA In-brief, review ship's schedule and advise TYCOM, ISIC, and C5RA Technical Director of any conflicting evolutions during C5RA.

(3) Host C5RA pre-brief (30 days prior to C5RA), in brief (first day of C5RA), and out-brief (last day of C5RA).

(4) Designate a working space for use by the C5RA Test Director and staff.

(5) Appoint a senior Supply Department representative to expedite logistics support.

(6) Ensure availability of support services including adequate power, cooling water, HP/LP/Dry Air, and air conditioning are available to support combat systems testing.

(7) Ensure availability of required calibrated test equipment.

(8) Provide ready access for C5RA team members based on clearance messages.

(9) Ensure dedicated ship's personnel are readily available for the C5RA and not assigned to conflicting duties. Ship's force technicians should work closely with C5RA team members to maximize training and awareness of existing equipment problems.

(10) Ensure all discrepancies are reported in CSMP and inoperative equipment reported per reference (c).

(11) Correct all major discrepancies prior to deployment.

(12) In support of continuous improvement, provide feedback and recommendations to TYCOM via C5RA Critique Sheets provided by the C5RA Test Director.

8. **Action**. All C5RA participants should conduct C5RAs in accordance with references (a) and (b).

S. G. BUSCH
Deputy and
Chief of Staff
COMNAVSURFPAC

R. P. PERRY
Deputy and
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COMNAVSURFLANT

Distribution: (COMNAVSURFPAC)
SNDL Parts 1 and 2
26A2 Amphibious Group PAC
26E2 Amphibious Unit PAC
26Z2 Shore Intermediate Maintenance Activity PAC
28B2 Cruiser-Destroyer Group PAC
28C2 Surface Group and Force Representative PAC
28D2 Destroyer Squadron PAC
28E2 Surface Squadron PAC
28J2 Combat Logistics Group, Squadron and Support Squadron PAC
28L2 Amphibious Squadron PAC
29A2 Guided Missile Cruiser PAC (CG) (CGN)
29E2 Destroyer PAC (DD), 963 Class
29F2 Guided Missile Destroyer PAC (DDG)
29AA2 Guided Missile Frigate PAC (FFG) 7
31A2 Amphibious Command Ship PAC (LCC)
31B2 Amphibious Cargo Ship PAC (LKA)
31G2 Amphibious Transport Dock PAC (LPD)
31H2 Amphibious Assault Ship PAC (LHA)
31M2 Tank Landing Ship PAC (LST)
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32G2 Combat Store Ship PAC (AFS)
32H2 Fast Combat Support Ship PAC (AOE)
32N2 Oiler PAC (AO)
32Q2 Replenishment Oiler PAC (AOR)
32S2 Repair Ship PAC (AR)
32X2 Salvage Ship PAC (ARS)
32MM Guided Missile Ship (AVM)
FT35 Amphibious School (Coronado only)
FT43 Surface Warfare Officers School Command
OIC MOTRATEAM MIDPAC

Copy to:
21A2 CINCPACFLT
26U2 Southwest (RMC)
31I2 Dock Landing Ship PAC (LSD)
32KK Miscellaneous Command Ship
C81B Space and Naval Warfare Systems Center Detachment
FKA1B Space and Naval Warfare Systems Command
C31B Fleet Technical Support Center Pacific Detachment
FB8 Fleet Technical Support Center Pacific

FKP4E Surface Warfare Center Divisions
C31 Maintenance Detachment
FB25 Naval Electronics Engineering Activity
(Pearl Harbor only (2))
28F2 COMLOGWESTPAC
COMNAVAIRPAC

Distribution: (COMNAVSURFLANT NOTE 5216) (CASE I)
26A1, 26E1, 26S1, 26Z1, 28, 29, 31, 32(less 32KKa)

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